AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A fluid distribution assembly for use in a fuel cell comprising:

an separator plate having a major face;

a boundary element disposed over said major face; and

a flow field having a channel formed in said separator plate at said major face, said channel and said boundary element defining a cross-sectional configuration which provides a water accumulation region along a length of said channel, said channel having a width and a depth, said width continuously decreasing along said depth of said channel in a direction generally away from said boundary element.

- 2. (original) The fluid distribution assembly of claim 1 wherein said water accumulation region is provided at an acute angle of said cross-sectional configuration.
- 3. (original) The fluid distribution assembly of claim 1 wherein said channel comprises a ramped sidewall such that said acute angle is formed at an interface angle between said ramped sidewall and said boundary element.
- 4. (original) The fluid distribution assembly of claim 3 wherein said cross-sectional configuration of said channel is v-shaped.

- 5. (original) The fluid distribution assembly of claim 4 wherein said cross-sectional configuration comprises an equilateral triangular cross-section.
- 6. (original) The fluid distribution assembly of claim 4 wherein said triangular cross-sectional configuration comprises an isosceles triangular cross-section.
- 7. (original) The fluid distribution assembly of claim 1 wherein said cross-sectional configuration of said channel is w-shaped.
- 8. (original) The fluid distribution assembly of claim 1 wherein said crosssectional configuration of said channel is trapezoidal.
- 9. (original) The fluid distribution assembly of claim 1 wherein said crosssectional configuration of said channel includes a recessed portion.
- 10. (original) The fluid distribution assembly of claim 1 wherein said recessed portion of said cross-sectional configuration is v-shaped.

11. (currently amended) A fuel cell comprising:

a separator plate including a flow field formed in a major face thereof, said flow field including a channel having a pair of sidewalls; and

an membrane electrode assembly disposed at said major face over said flow field:

wherein said pair of sidewalls intersect said membrane electrode assembly to form a cross-sectional geometry having a water accumulation region, said cross-sectional geometry having a width and a depth, said width continuously decreasing along said depth of said channel in a direction generally away from said boundary element.

- 12. (original) The assembly of claim 11 wherein said pair of sidewalls intersect said membrane electrode assembly at an acute angle.
- 13. (original) The assembly of claim 12 wherein said acute angle is defined as a function of an aspect ratio of a channel width and a channel depth
- 14. (original) The assembly of claim 13 wherein said aspect ratio of said channel is in the range of about 0.25 10.
- 15. (original) The assembly of claim 12 wherein said water accumulation region is defined in at least one corner of said cross-sectional geometry, said at least one corner having an angle not greater than about 75 degrees.

- 16. (original) The assembly of claim 15 wherein said at least one corner having an angle in the range of 10-60 degrees.
- 17. (original) The assembly of claim 11 wherein said cross-sectional geometry of said channel comprises at least one water accumulation region at a bottom portion of the channel.
- 18. (original) The assembly of claim 16, wherein said water accumulation region comprises a v-shaped recess formed in said bottom portion of said channel.
 - 19. (cancelled)
 - 20. (cancelled)